

**Docket No. 217 – Development and Management Plan Inspection**

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

**Date:** March 2, 2005

**Inspector:** Diana Walden

**Location:** 345kV XLPE Component

**Storm/**

**Rain Event:** Approximately 0.36" of precipitation fell mostly in the form of snow on 3/2 as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Access Roads and Adjacent Roadways	<ul style="list-style-type: none"> <li>-Excavation for the jack and bore of East Swamp Brook located at the intersection of Plumtrees Rd. Walnut Hill Rd. and Whittlesey Dr. is ongoing. 2/16-3/2/06.</li> <li>- The pull-off along Walnut Hill Rd. for vault 2A &amp;B was placed with stone. 3/2/06</li> <li>-The stone access will remain off Rt. 58 until trenching from Hoyts Hill transition station begins. 3/2/06</li> <li>-Work also continues within the access drive to Plumtree Substation. 2/23-3/2/06</li> <li>- Excavation for vaults was occurring along Whittlesey Dr. and at the Rt. 302 intersection. 3/2/06</li> </ul>	<ul style="list-style-type: none"> <li>- Equipment is located on both sides of the bore as well as in the adjacent ball park. 3/2/06.</li> <li>-Monitor any tracking issues to the roadways. Controls are well in place. 3/2/06</li> <li>- The area will remain with a stone surface permanently. 3/2/06</li> <li>- When work resumes here, portable plastic mats will be used for additional access. 2/23-3/2/06</li> <li>- None at this time. 3/2/06</li> <li>- Watch catch basins in the area for any sedimentation issues and install controls if necessary. 3/2/06</li> </ul>
Trench and foundation construction	<ul style="list-style-type: none"> <li>- Actual excavation within the sheet piling/shoring is ongoing. Shoring is in place on both sides of the intersection. 2/2-3/2/06</li> <li>- Well points were being installed to deal with dewatering issues. 3/2/06</li> </ul>	<ul style="list-style-type: none"> <li>- The area remains well contained at this time. 3/2/06</li> <li>- See erosion control section for recommendation. 3/2/06</li> </ul>

Areas of Inspection	Observation	Recommended Action
Trench construction Continued	<p>- Vault 1A and B were installed adjacent to Plumtree Substation and trenching and conduit installation were occurring along the access drive. 3/2/06</p> <p>- Excavation for vaults along Whittlesey Dr. and at the Rt. 302 intersection were also noted. 3/2/06</p>	<p>- The area remains well contained and soil was being removed by truck to a storage facility. 3/2/06</p> <p>- None at this time. There are limited resource areas in the vicinity of these vaults. 3/2/06</p>
<p>Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)</p> <p><b>Plumtree Substation Drive</b></p> <p><b>Jack and Bore</b></p>	<p>- Trenching along the access drive to Plumtree Substation is adjacent to wetland swales. Since soil is being removed directly to trucks, and the drive surface is hard packed, controls don't appear to be necessary. 3/2/06</p> <p>- The dewatering box is working well and is in active use. Water exiting the box is well filtered. 3/2/06</p> <p>- Silt fence at vault 2A &amp; B was well in place and repaired but several piles of stone has been placed over it as a result of plowing. 3/2/06</p> <p>- Erosion controls remain well in place adjacent to the road at the J&amp;B pad. 3/2/06</p> <p>- A plastic liner remains installed in the stream bed and up the banks. Stone was installed over it within the stream and soil was placed to secure it on the banks. 2/16-3/2/06</p> <p>- The well point installation resulted in a pile of sediment near the streambank. Controls had been installed but were adjusted at the time of inspection. 3/2/06</p>	<p>- Watch adjacent areas for any sediment issues, install controls if necessary. (They were not called for in plans). Watch placement of stone stockpiles and pull back from swales. 3/2/06</p> <p>- Continue to monitor to be sure it is not used beyond its capacity. 3/2/06</p> <p>- Stone piles should be placed back on the work side of the fence as soon as feasible. 3/2/06</p> <p>- None at this time, continue to maintain controls during active work. 3/2/06</p> <p>- Silt fence was still in place above the liner but continue to monitor the disturbed area below for sedimentation. The stream was running clear at the time. 3/2/06</p> <p>- The sediment should be removed as soon as feasible due to its proximity to the stream. 3/2/06</p>

Areas of Inspection	Observation	Recommended Action
	<p>- The dewatering box set-up has been used minimally but works well. The well points will reduce the need for it. 3/2/06</p> <p>- <b>Hoyts Hill</b>- Silt fence and haybales remain installed along the cleared area in preparation for trenching. A stone pad remains in place for access. 3/2/06</p>	<p>- None at this time. 3/2/06</p> <p>- None at this time. 3/2/06</p>
Inland Wetland and Watercourse encroachment and mitigation	<p>-East Swamp Brook crosses under Plumtrees Rd. A large plastic liner is in place across the bed and up along the banks to keep water out of the bore trench. Stone was installed over the liner to create a temporary natural bed. 2/16-3/2/06</p> <p>-Flow has already shaped the pattern of stone within the stream. 3/2/06</p>	<p>- The stream continues to run clear. Be sure to remove the liner and restore the natural bed when work is complete. Watch the banks where soil was disturbed for any erosion. 2/16-3/2/06</p>
State species of concern, threatened and endangered species	-The D&M plan and clearance letter states that state-listed species are not located in this work area.	- N/A
Vegetative clearing limits (including trees to save or danger trees noted)	<p>-Major clearing was not needed for the receiving side at this time due to mostly low vegetative growth but the liner work did require removal of some of the stabilizing vegetation. 2/16-3/2/06</p> <p>-Some vault work is occurring in maintained lawn areas. 3/2/06</p>	<p>- Clearing was limited to what is necessary and it will continue to be monitored, especially along the disturbed bank. 2/16-3/2/06</p> <p>-Restore lawn and vegetation as necessary when work is complete during the growing season. 3/2/06</p>
Dewatering	<p>-Minor dewatering has occurred to the well lined box at the jack and bore. Water was handled very well by the setup. 2/2-3/2/06.</p> <p>- Well points are being installed to handle significant water in the excavation. This</p>	<p>-Continue to monitor the pit for appropriate capacity. It looks well constructed and is a good idea. 2/2-3/2/06.</p> <p>- Just be sure to monitor stockpiles resulting from well installation. 3/2/06</p>

Areas of Inspection	Observation	Recommended Action
	<p>will help reduce any turbidity as the water will not be in contact with the disturbed soils in the trench. 3/2/06</p> <p>- Another box setup remains at the access drive to Plumtree Substation and it is also working well. 2/23-3/2/06</p>	<p>- Water here is well filtered by the time it leaves the set-up. 3/2/06</p>
Blasting	<p>- No blasting is occurring at this work area.</p>	<p>- None at this time.</p>
Soils	<p>- Soils removed from the trench along the Plumtree Substation access drive were being placed directly into dump trucks and removed from the site 3/2/06</p> <p>- Filtering sands were brought in and stockpiled at the baseball park to be placed in the well points. 3/2/06</p>	<p>- The area was well contained at the time. 3/2/06</p> <p>- None at this time. 3/2/06</p>
Spills and Material Storage \\	<p>- Equipment should be stored overnight up to 100ft or as far from resource areas where practicable. 1/19-3/2/06</p> <p>-Spills or leaks were not noted at this inspection. 3/2/06</p>	<p>- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site.</p> <p>- The contractors should remain vigilant about securing and handling fuel and all other material containers due to the sensitivity of the area.</p> <p>- Report spills immediately, even if they are being controlled.</p> <p>- Any fuels and agents not in use should be covered and stored before leaving for the day.</p>

**Next likely scheduled  
inspection:**

Thursday, March 9, 2006

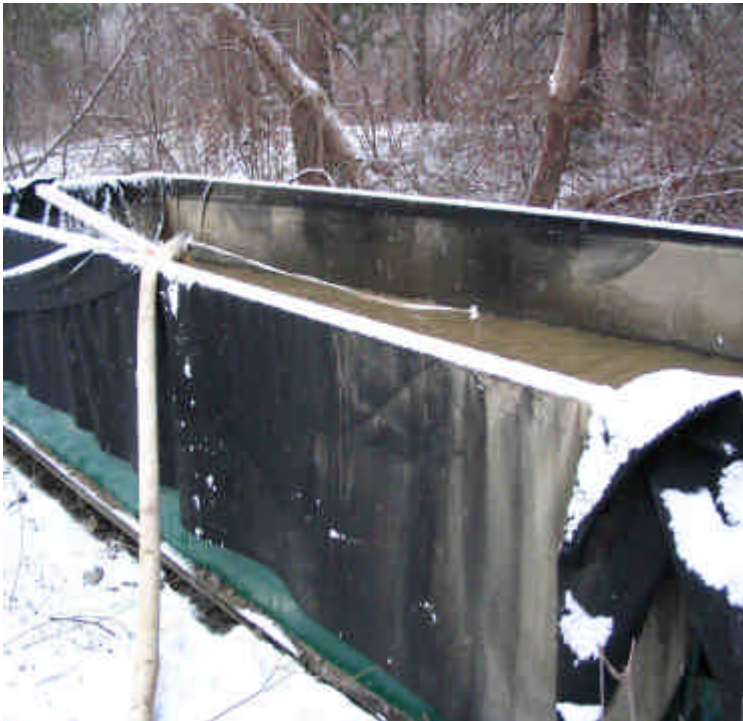
I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

**Inspector's Signature:**

Diana Walden



**345kV XLPE (Plumtree Substation): Both photos show the work within the access drive to Plumtree Substation where trenching is underway and the conduit bank is being installed. 3/2/06**



**Photos show the effective set-up used to filter discharge water from dewatering the trench in this area. The box is lined with filter fabric overlain on stone and haybales. Photo on the right shows the water leaving the box well filtered. 3/2/06**





**(Vault 2A-B):** Photo on the left shows the pull-off where the vault was installed. Stone remains in place. Photo on the right shows one of several stone/snow piles that was placed beyond the silt fence when the area was plowed. Piles should be pulled back to the work side of the fence 3/2/06



**(Jack&Bore):** Photo on the left shows the sediment pile resulting from installing a well point as well as placing some of the filtering sand. Photo on the right shows the controls installed beyond the pile at the riverbank. This pile should be removed before the next rain event to remove a potential source of sedimentation. 3/2/06





Photo on the left shows the receiving side of the stream which is still well stabilized with the stone and plastic liner. Photo on the right shows a view of the work at the bore pad. 3/2/06



(Vaults): Photo on the left shows vault installation along Whittlesley Drive near Bethel Ed. Park. Photo on the right shows the work to install vault 5A and B near the Rt 302 intersection. Both sites are free of adjacent resource areas. Watch protection of catch basins if necessary. 3/2/06